

State of Idaho

DEPARTMENT OF WATER RESOURCES

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> C. L. "BUTCH" OTTER Governor DAVID R. TUTHILL, JR. Director

November 27, 2007

Ms. Debbie Suehr Bureau of Reclamation 1150 N. Curtis Road Boise, ID 83706

RE: Request under Freedom of Information Act

Dear Debbie:

The Idaho Department of Water Resources requests copies of the following information under the Freedom of Information Act (FOIA):

Minidoka Project, ID-WY, North Side Pumping Division - DPR appendix

- Project Lands (June 1952; rev. July 1956) no.1
- Supplement to Project Lands (1956)
- Water Supply Supplemental (1954); no. 1
- Supplemental Drainage (1954); no. 1

Minidoka Project, ID-WY, North Side Pumping Division, Definite Plan Report, Volume 1, General Plan, February 1955, Region 1

• Three revision sheets inside

Minidoka Project, ID-WY, North Side Pumping Extension – PFWD appendix

• Drainage Investigations, Supporting Computations (December 1974)

Minidoka Project, ID-WY, North Side Pumping Division Extension – Planning Report/Draft EIS

Hydrology (July 1985); no. 1 [include large drawings/maps full size]

Minidoka Project, ID-WY, North Side Pumping Division, *Drainwater Management Plan*, <u>Draft Environmental Assessment</u>, December 1993, PN Region

Minidoka Project, ID, WY, North Side, Minidoka North Side Resource Management Plan, January 2005, SRAO (CD version)

If you have any questions, please call me at (208) 287-4841.



UNITED STATES

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BUREAU OF RECLAMATION

M Morth Side Pumping Field Division Rupert, Idaho

July 5, 1956

To:

Regional Director, Boise, Idaho

Attention: 400

From:

Construction Engineer, Rupert, Idaho

Subject: Supplemental Land Certification -- North Side Pumping Division,

FILE

Minidoka Project, Idaho

We are transmitting, under separate cover, marked maps showing location of lands for subject certification. The attached table shows the acreage breakdown by land class for the supplemental certification.

Please note that to bring the Project Lands Appendix dated June 1, 1952 up to date, the following changes should be made:

On line 7, page 1, the figure 69,500 should be changed to read 80,750. On line 2, page 25, under the paragraph headed "The Selected Area" the figure 12,830 should be changed to read 13,650 and the word "net" should be deleted. On line 3 of the same paragraph the figure 52,510 should be changed to read 67,100 and on line 4 of the same paragraph the word "net" should be deleted.

By copy of this letter 3 copies of the attached table and 3 complete sets of the marked maps showing location of subject certification are being transmitted to the Assistant Commissioner and Chief Engineer, Attention: D-740. C. L. Kime

Enclosure No.162224 (under separate cover)

Copy to: Assistant Commissioner and Chief Engineer, Denver, w/encls. Project Superintendent, Burley, Idaho, w/table encl. only)

IN REPLY REFER TO:

KINIDKA PROJET

NORTH SIDE PROPING DIVISION

IMAHO

DETINITE PLAN PRPORT

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1952 PROJECT LANCE APPENDIX

Dockler 134 Revised June 136

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IRRIGABLE AREAS (Acres)

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MITTED STATES DEPARTMENT OF THE INTERIOR

RUNEAU OF RECLAMATION VILLEUR A. DECUEDER, Cresissioner

E. T. MELSON, Regional Director

MINIDOKA PROJECT

HORTH SIDE PUMPING DIVISION

IDANO

DEPTIMENT HAN REPORT
SUPPLINGUE
TO
1952 PROJECT LANDS APPENDIX

Boise, Maho Recember 1954 Revised June 1956

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SUPPLEMENTAL PROJECT LANDS APPENDIX NORTH SIDE PUMPING DIVISION IDANO

TE PERSONAL PROPERTY.

As approved September 30, 1950, Public law 864, 81st Congress, 2nd Session, authorized the irrigation of the land on the North Side Pumping Division of the Minidows Project. In the initial development 69,500 irrigable acres were selected from an area of about 122,400 acres classified in detail. The irrigable area selected for development included 13,650 acres in Unit A to be served water by pumping from Smake River and 55,850 acres in Unit B to be served by pumping of ground water.

During the sugmer of 1954 an additional area of about 8,400 acres in the northeast part of the Division were classified in detail. This was done so that from the remaining more favorably located land vithdram for reclamation, 8,150 additional acres of the best land authorized for development could be selected. This detailed land classification embraced an area in the shallower ground-water belt near Minidoks in which about 5,000 scres adjoining the area under development had already been classified but not included in the initial area of 69,500 acres selected for irrigation development (see General Map). Thus, in this area there is a total of about 13,500 acres from which the 8,150 irrigable acres can be selected to be served by pumping from wells designated as the Group 7 Wells. Tables 5A and 6A show the location and classification of the previously classified lands included in the area to be served by these wells. Up to 1954 this increases the area to be served from wells from 55,850 irrigable acres to 64,000.

This supplemental project lands appendix deals with the detailed classification of some 8,400 acres remaining unclassified when the Definite Plan Report of August 1952 was insued.

DIVISION LANDS CLASSIFIED IN 1954

Location and Extent

The 8,400 acres classified in detail during 1954 for inclusion in the North Side Pumping Division of the Minidoka Project were the last remaining Reclassifien withdrawn lands to be classified for irrigation under the plans for development of that Division. These lands adjoin the northeastern edge of the area already classified as a more or less continuous narrow strip consisting of land on each side of the main line of the Union Pecific railroad for a distance of about 10 miles west from the vicinity of the Minidoka station.

Physical Land Features

These lands which lie just inside the northeastern edge of the Division are at elevations of from about 100 to 150 feet higher than at the southern edge because of the general rise northward of the losss-mantied lava plain. Topographically, there is a markedly discernable rise in elevation which coincides roughly with the north-castern exterior boundary of the area embracing the 69,500 acres initially certified for development.

This pronounced rise, together with a northward bench-like increase in elevation, has promoted development of a more clearly defined departic drainage pattern than to the south. Between the intermittent drainage-ways are for the most part broadly undulating and gently sloping land bodies generally well suited to irrigation development. The underlying baselt outcrops occasionally on the higher points of rolling land and along the outer adges of the flatter lands lying in the drainageways; but only in the extreme western part do these outcroppings give rise to any significantly continuous areas of scabland.

Northward from the sharp rise in elevation there is significantly higher lime accumulations in the subscils and the substratum overlying the basalt bedrock than is common to most of the remainder of the Division. In this area the high permeability of the surface soil, together with the underlying creviced basalt and well-developed dendritic drainage-pattern should prevent or alleviate any tendency to oversaturation which might arise from slow-up of the internal soil and underdrainage where lime camented layers occur in the subscil and substratum. In the vicinities of nearby Maxelton and Eden, land with similar topographic, soil and substratum characteristics are well drained and highly productive after more than 40 years under irrigation.

30114

The soils, as elsewhere on the Division, have developed from airborne and windblown material deposited to variable depth over uneven basaltic lava of unknown thickness. Like those soils they have light colored, mellow, permeable, silty surface soils high in mineral matrients but low in arganic matter and nitrogen. Also similarly the subsoils have a high lime content but the compaction and comentation for the most part is more generally and highly developed and often extends well into the substratum.

According to the 1928 Soil Survey Report of the United States
Department of Agriculture most of the soils in this part of the upland
plain are members of the Minidoka series. As distinguished from the
Princul soils, which are the dominant soils elsewhere in the Division,
the Minidoka soils are described as having much higher subsoil and substratum lime accumulation, that characteristically is in the form of

Table 5--ACREAGE OF LAND CLASSES - SUPPLEMENTAL SURVEY 1954

NORTH SIDE PUMPING DIVISION Minidoka Project, Idaho

	Lo	entic	n		0				Ž.	Arable					-		HO	n-Arab	le	
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22	\$	7	b	24	3	97.5	2	29.6	1	294.9	9		Ď.	422.0	*	20.4		37.6	4	58.0
23	9	7	. 2	24	12	202.4	1	72.0	\$	273.0	4			547.4	9	59.9	2	33.7	2	93.6
26	1	7	\$	24	\$	63.4	\$	25.5		193.7	p 4			282.6	2	17.4	:	9.3		26.7
27	*	7	1	24	*	29.8	4	17.2	9	144.1	5	;	1	191.1	9	9.3	1	12.0	1	21.3
28	*	7	•	24	1	62.1	i	139.9	2	237.9	4	;	Ī	439.9	8	0.3	:	24.0	1	24.3
27	*	7	\$	25	1	8.4	:	23.9	2	104.5	*	İ	2	136.8	1	15.0	ŧ	8.2	3	23.2
29	*	7	*	25	÷	0.0		4.0	2	140.3	*	į		144.3	8	5.0	*	10.7	1	15.7
30	Z	7	2	25	:	0.0	:	88.1	ŧ	321.8	*	2	1	409.9	:	24.6	:	16.8	1	41.4
31	1	7	2	25	1	0.0	1	81.5	7	306.0	ž	1	b.	387.5	9	11.9	ż	29.1		41.0
32	4	7	*	25	1	0.0	**	73.4	*	475.8	d.			549.2		18.0	8	32.9	:	50.9
33	2	7	5	25	2	69.7	*	27.1	7	465.3	7		į	562.1	9	0.1	8	46.1	*	46.2
34	1	7	Ī	25	9	40.0	ŧ	16.8	7	238.1	7	1		294.9	*	14.5	S	8.3	2	22.8
	2	8	2	25	1	1.02.5	:	50.8	2	423.9	3	3		577.2	3	24.4	*	15.4	2	39.8
3	4	8	2	25	ļ	0.0	1	106.6	1	479.1	2	1		585.7	*	15.6	2	40.5	2	56.1
5		8	4	25	\$	0.0	1	208.7	9	218.2	Z		t	426.9	2	0.1	1	12.9	2	The state of the s
10	2	8	*	25	5	5.5	8	79.6	*	164.6	1		1	249.7	8	10.7	2	7.9	:	
11	1	8	1	25	٧	0.0	8	26.2	*	314.5	4			340.7	5	0.0	2	7.3	*	7.3
12	:	8	2	25	8	0.0	8	160.2	2	282.0	9		Š	W2.2	2	30.4	2.1	167.8	=	198.2
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Table 5A -- ACREAGE OF LAND CLASSES FROM INITIAL SURVEY

MORTH SIDE PUMPING DIVISION Minidoka Project, Idaho

	Location		•		Arable	Non-Arable				
Sec.	Typ.	Be-			3	Total	4P	6	Total	
33	7	24	:	50.7	243.7	294.4	0.7	45.8	40.5	
35	7	24	1 4.5	63.1	221.5	295.1	9.5	7.7	17.2	
6	8	25	*	88.2	38.0	126.2		12.0	12.0	
15	8	25	1 1	32.3	64.2	96.5		6.7	6.7	
7	8	25	30.7	52.8	259-3	342.8	16.5	8.7	25.2	
Totals	Traffiction of Court of State of The Property and	a taga cara taga cara taga cara cara cara cara cara cara cara c	35.2	267.1	832.7	1155.0	26.7	80.9	107.6	
R	enter sus after an i tite and the passes of the	и — отдудуу жине — и — <u>одой-че ай-мей дойн-Лай</u> е (to the same of the		of State of	the second of Manager	A&B 2	293	

- 1/ Arable less 4 percent for additional rights-of-way.
- 2/ Irrigable less 6 percent for farmsteads, farm roads, and farm ditches.

Table 6A--LAND CLASSIFICATION SUBMARY OF LANDS FROM INITIAL SURVEY

MORTH SIDE PUMPING DIVISION Minidoka Project, Idaho

Land Class	9	Arable Land Acres	2	Irrigable Land 1/ Acres	1	Productive Land 2/
Class 1	1	35.2	2	33.9	1	31.8
Class 2	1	287.1	7 2	275.7	*	259.2
Class 3	i	832.7	1	799.5	8	751.6
Totals	:	1,155.0	:	1,109.1	8	1,042.6

- 1/ Arable Land less 4 percent for additional rights-of-way.
- 2/ Irrigable Land less 6 percent for farmsteads, farm roads, and farm ditebes.

Irrigability Classification and Development of the Group 7 Wells Area

The lands classified as irrigable in this supplemental survey and the previously classified lands included in the 8,150 irrigable acres of this group, like those elsewhere in Unit B, will obtain irrigation water by pumping from wells. Likewise, as determined by location, elevation and capacities of the individual wells, the potentially irrigable lands will be laid out into farm units of acceptable size (see memorandum - table 8.)

The irrigable area map of the supplemental survey of 1954, following page 14, shows the arable lands and the tentative exterior boundary of the irrigable lands upon completion of the survey and in table 6, the arable, irrigable, and productive acreages are shown. Table 5-A gives the location and land class breakdown of the lands previously classified, and in table 6-A, the arable, irrigable, and productive acreages of that area are shown. The irrigable acreages will be subject to some minor changes upon the completion of the farm unit layout.

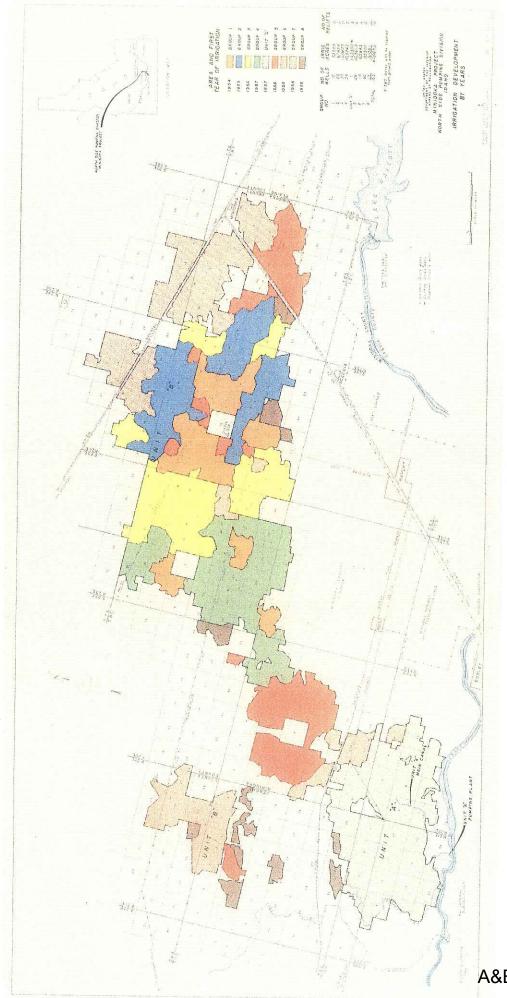
(AUG. 1954) BUREAU OF RECLAMA	TION		LAND CLAS	SSIFICATION-	SUMMARY DATA			DATE A	'No "34
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CLASS 4	172.0		11.0	20 Line			SUPPLEMENTA		
X					SALII	NIIY	&	SODIUM	
SUBTOTAL	0,300.0		L. NTL.O	0,100.	рН		醒」	GYPSUM	
CLASS 5				V	LINE			LEACHING	
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CLASS 6	229.1	,	45.1	12).	H ₂ O	CONDUCT.		FIELD CAPA	CITY
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- DESCRI	IPTION OF CLASS 5:								
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12. DATE OF	SECRETARIAL CERTI	IFICATION							

APPEEDED MATERIAL

This part of the Supplement to the Project lands Appendix of 1952 deals with that portion of the North Side Pumping Division of the Minidola Project designated on the area to be served by the Group 8 Salie. This area is calliand on the map estitled Irrigation Development by Years, and on the land classification maps that follow.

The Group θ balls area moments of 3,100 irrigable seres, which, when added to the $\theta 9,500$ irrigable seres initially certified in 1952, and the $\theta ,150$ acres covered for certification in the 1954 Supplement, raises the total certage of the division proposed for development to $\theta 0,750$ irrigable seres.

The derivation of the 3,100 irrigable serve for development in the area to be served by the Group 8 Walls in shown on the Land Classification Summery hate Short. The soils, land conditions and classification of these lands are described in the original 1952 Project Lands Appendix.



A&B 297

MINIDOKA PROJECT

NORTH SIDE PUMPING DIVISION

IDAHO

DEFINITE PLAN REPORT

SUPPLEMENT

TO

1952 PROJECT LANDS APPENDIX

December 1954 Revised June 1956

-1594 NUG. 1954) UREAU OF RECLAMAT	TION		LAND CLA	SSIFICATION	SUMMARY DATA			DATE	
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UNIT	From 7 and	8 Wells	Areas		OTHER		SCALE.		
OTHER									
3. FIELD WOR	47 & 1954 c	our 7/1/	/5k	OTHER 8/	1/54	400	ENDIX REPORT _	1952 & 1	L/15/54
N , Land		CREAGE CLASS		OTHER		5.	NUMBER OF BOR		
	TOTAL		PROJECT OR U	VIT			MINIMUM	AVERAGE	TOTAL
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CLASS I	1,212.7		1,164.5	1,164	DEEP (OVER 101			9
CLASS 2	3,610.2		3,465.	3,465	OPEN P	IT OR DEE	P PROFILES	1	9
CLASS 3	6,895,3		6,620.	6,620)-3		6. SUPPLEMENT	AL PROCEDUR	
CLASS 4	362.6		362.6	5	SALI	NITY	[X]	SODIUM	X
SUBTOTAL	12.080.8		11,612.		Hq * 0. (<u> </u>	GYPSUM	
CLASS 5					LINE	· !	X	LEACHING	X
CLASS 6W					MEC+	. ANAL.	X	ORG. MATT	ER 🗍
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12. DATÉ OF	SECRETARIAL CERT	IFICATION					· · · · · · · · · · · · · · · · · · ·		A&B 299

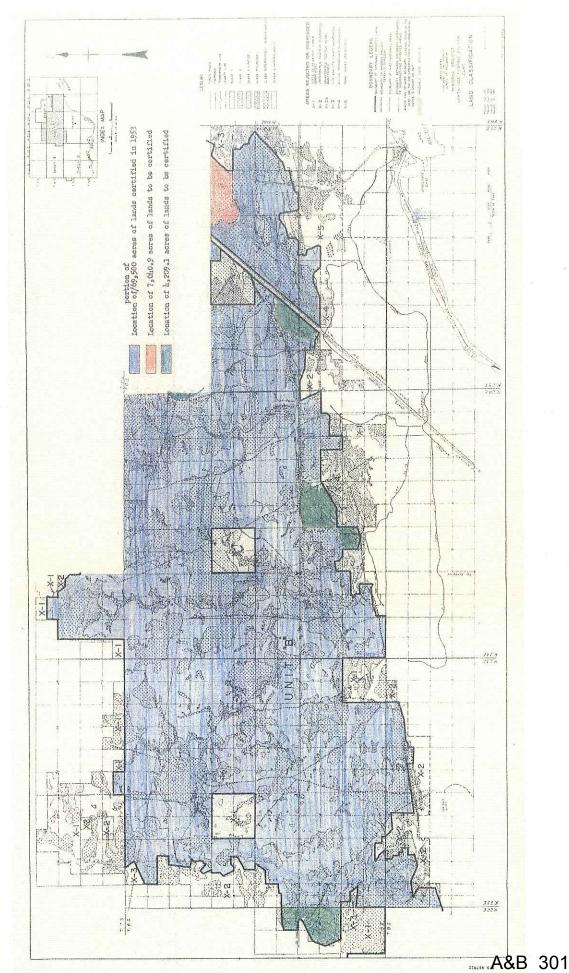
ACREAGE TABLATIONS 1/52 and 1956 Land Classification Certifications North Side Purping Division-Minidoka Project

IRRIGATELE ARMAS (Acres)

laid class	1)52 Certification	1956 Certification	Total
	3 6,160	1,164.2	37,324.2
	25,130	3,465.5	28,595.5
3	8 ,2 10	6,620.3	14,830.3
Total	69,500	11,250.0	80,750.0

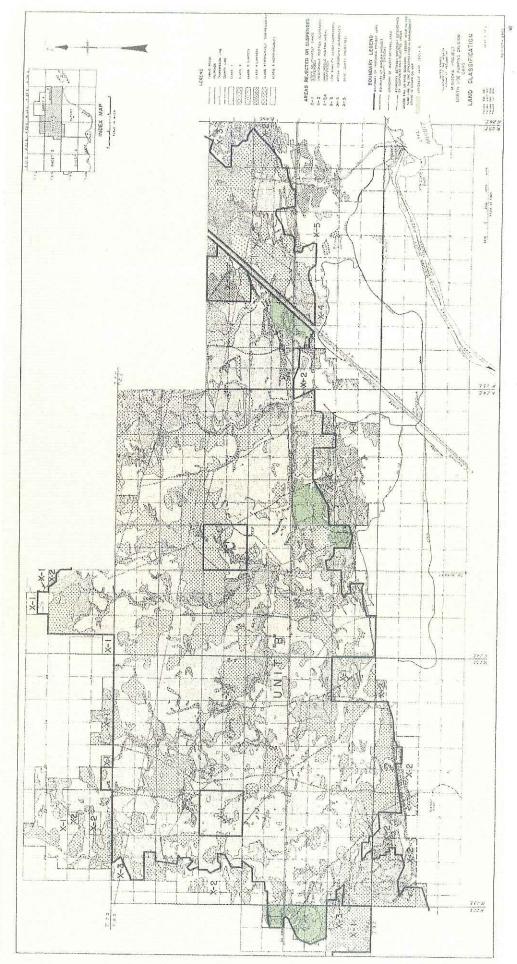
INTIGALE AREAS BY SUPPORTING REPORTS (Acros)

	1952 Pro.	est lands supendix	1954 Supplement
Land class		stion : Certification	: Certification
.	3 6,16	60 462. 9	701.3
2	25,13	jo 2, 090.γ	1,374.8
3	8,2	1,695.5	4,564.8
2014	69,50	4,2 09.1	7,040.9
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					0 (A)
0				1954 Land Classification	Total
		Class		Supplement Contified 1056	Certified 1
	Arable	Trifgable Certified 1953	ITTIES COLUMN TAND	101110100	
Unit A Class 1	375,01	096%			3,030
Class 2	25.6	0,000			099
Sub-Total	14,215	13,650			13,650
124.4. II					
Class 1	28,650	26,200	1,910.8	701-3	27,502,1 25,11,53,1
Class 3		7,550	1,667,8	20706	149 TOC 00
Sub-Total	006*69	55,850	4,209.1	7,040,9	67,100
TOTALS	84,115	005*69	1,209,1	7,040.9	80,750
र	Arable 1	Arable less l& for additional right-	right-of-way		
	010				C

A&B 302



UNITED STATES DEPARTMENT OF THE IMPERIOR

BUREAU OF RECLAMATION WILDUR A. DECREDER, Commissioner

H. T. NMLSON, Regional Director

MINIDOKA PROJECT

HORTH SIDE PUMPING DIVISION

IDAHO

DEFINITE MAN REPORT SUPPLEMENT TO 1958 PROJECT LANDS APPENDIX

> Boise, Idaho December 1954 Revised June 1956

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MINIDOKA PROJECT KORTH SIDE PUMPING DIVISION IDAHO

DEFINITE PLAN REPORT

SUPPLEMENT TO

/ PROJECT LANDS APPENDIX (1952)

December 1954

June 1956

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12. DATE OF SECRETARIAL CERTIFICATION			./			رم ر در در در	a see 3	*	1127 - 75
12. DATE OF SECRETARIAL CERTIFICATION								. c	with more received
	12. DATE OF	SECRETARIAL CERT	IFICATION	<u>. I</u>					(

ACREAGE TABULATIONS 1952 and 1955 Land Classification Certifications North Side Pumping Division--Minidoka Project

IRRIGABLE AREAS (Acres)								
	:	1952	:	1956	:			
Land class	:	Certification	:	Certification	:	Total		
1	:	36,160	:	785 P1/64	2:	36,895.2		
2	:	25,130	:	1,650. \$3465.	5:	26,78ø.5	3,595,5	
3	:	8,210	:	5,764.866~0.	3:	13,974.3	14,830.3	
Total	:	69,500	:	8,150 01/250	; , <i>3</i> :	7 7,6 50	80,750.0	

IRRIGABLE AREAS BY SUPPORTING REPORTS

	(,	Acres)	
	: 1952 Project	lands appendix	:1954 Supplement
•	1952	: 1956	1 956
Land class	: Certificatiø	n : Certification	: Certification
1	36,160	: +62.1 □ 33 79	701.3
2	ٍ 130, 25	:23 (4.7) 275.7	: 14374.8
3	: 8,2 1 0∮	:/#C.5 799.5	: 4,9 6 4.8
Total	: 69,500	4207.11,109.1	: 7,040.9

UNITED STATES DEPARTMENT OF THE INTERIOR DOUGLAS MCKAY, Secretary

BUREAU OF REGLAMATION WILBUR A. DEXHEINER, COMMISSIONAT

REGION 1 R. T. MELSON, Regional Director

MINIDORA PROJECT
HORTH SIDE PUMPING DIVISION
IDANO

PAPTHITE PLAN REPORT SUPPLEMENT TO 1452 PROJECT LANDS APPENDIX (****)

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Revised Time 150

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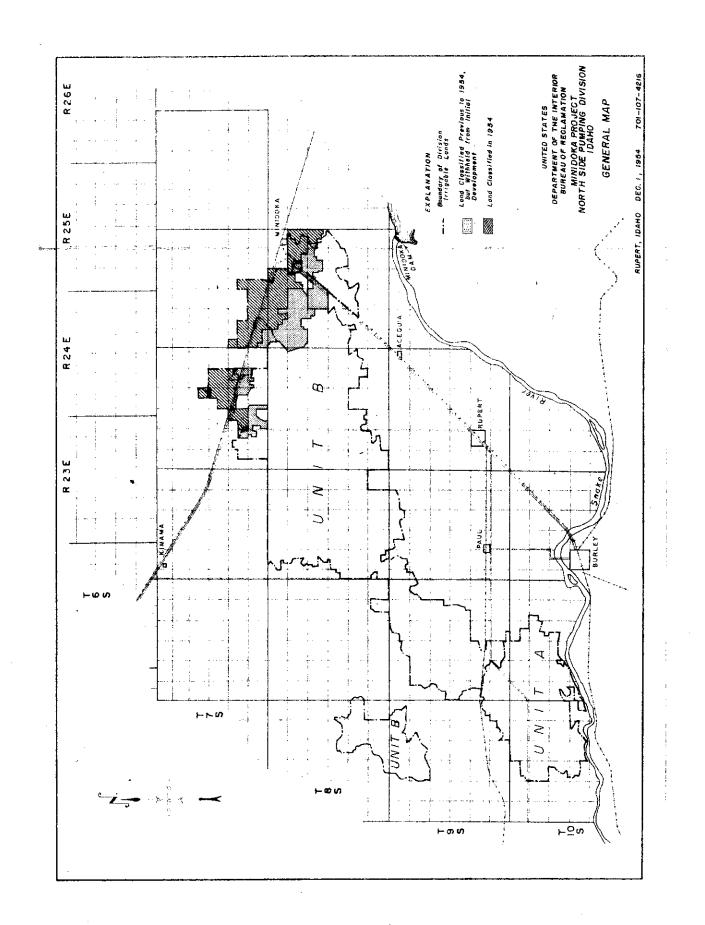
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SUPPLEMENTAL PROJECT LANDS APPENDIX NORTH SIDE PUNPING DIVISION IDANO

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As approved September 30, 1950, Public Law 864, 81st Congress, 2nd Session, authorized the irrigation of the land on the North Side Pumping Division of the Minidoka Project. In the initial development 69,500 irrigable acres were selected from an area of about 122,400 acres classified in detail. The irrigable area selected for development included 13,650 acres in Unit A to be served water by pumping from Snake River and 55,850 acres in Unit B to be served by pumping of ground water.

During the summer of 1954 an additional area of about 8,400 acres in the northeast part of the Bivision were classified in detail. This was done so that from the remaining more favorably located land withdrawn for reclamation, 8,150 additional acres of the best land authorized for development could be selected. This detailed land classification embraced an area in the shallower ground-water belt near Minidoka in which about 5,000 acres adjoining the area under development had already been classified but not included in the initial area of 69,500 acres selected for irrigation development (see General Map). Thus, in this area there is a total of about 13,500 acres from which the 8,150 irrigable acres can be selected to be served by pumping from wells designated as the Group 7 Wells. Tables 5A and 6A show the location and classification of the previously classified lands included in the area to be served by these wells. Up to 1954 this increases the area to be served from wells from 55,850 irrigable acres to 64,000.

This supplemental project lands appendix deals with the detailed classification of some 8,400 acres remaining unclassified when the Befinite Flan Report of August 1952 was issued.

DIVISION LARDS GLASSIFIED IN 1954

Location and Extent

The 8,400 acres classified in detail during 1954 for inclusion in the North Side Pumping Division of the Minidoka Project were the last remaining Reclamation withdrawn lands to be classified for irrigation under the plans for development of that Division. These lands adjoin the northeastern edge of the area already classified as a more or less continuous narrow strip consisting of land on each side of the main line of the Union Pacific railroad for a distance of about 10 miles west from the vicinity of the Minidoka station.

SUPPLEMENTAL PROJECT LANDS APPENDIX NORTH SIDE PUMPING DIVISION IDAHO

INTRODUCTION

As approved September 30, 1950, Public Law 864, 81st Congress, 2miSession, authorized the irrigation of 17,550 deres 1 land on the North Side Pumping Division of the Minidoka Project. In the initial development 69,500 irrigable acres were selected from an area of about 122,400 acres classified in detail. The irrigable area selected for development included 13,650 acres in Unit A to be served water by pumping from Snake River and 55,850 acres in Unit B to be served by pumping of ground water.

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Physical Land Features

These lands which lie just inside the northeastern edge of the Division are at elevations of from about 100 to 150 feet higher than at the southern edge because of the general rise northward of the loess-mantled lava plain. Topographically, there is a markedly discernable rise in elevation which coincides roughly with the northeastern exterior boundary of the area embracing the 69,500 acres initially certified for development.

This pronounced rise, together with a northward beach-like increase in elevation, has promoted development of a more clearly defined dendritic drainage pattern than to the south. Between the intermittent drainage-ways are for the most part broadly undulating and gently sloping land bodies generally well suited to irrigation development. The underlying basalt outcrops occasionally on the higher points of rolling land and along the outer edges of the flatter lands lying in the drainageways; but only in the extreme western part do these outcroppings give rise to any significantly continuous areas of scabland.

Northward from the sharp rise in elevation there is significantly higher lime accumulations in the subscils and the substratum overlying the basalt bedrock than is ecomon to most of the remainder of the Division. In this area the high permeability of the surface soil, together with the underlying crewiced basalt and well-developed dendritic drainage-pattern should prevent or alleviate any tendency to oversaturation which might arise from slow-up of the internal soil and underdrainage where lime cemented layers occur in the subsoil and substratum. In the vicinities of nearby Mazelton and Eden, land with similar topographic, soil and substratum characteristics are well drained and highly productive after more than 40 years under irrigation.

Soils

The soils, as elsewhere on the Bivisien, have developed from airborne and windblown material deposited to variable depth over uneven basaltic lava of unknown thickness. Like those soils they have light colored, mellow, permeable, silty surface soils high in mineral mutrients but low in organic matter and nitrogen. Also similarly the subsoils have a high lime content but the compaction and cementation for the most part is more generally and highly developed and often extends well into the substratum.

Ascording to the 1928 Soil Survey Report of the United States
Department of Agriculture most of the soils in this part of the upland
plain are members of the Minideka series. As distinguished from the
Portneuf soils, which are the dominant soils elsewhere in the Division,
the Minideka soils are described as having much higher subsoil and substratum lime accumulation, that characteristically is in the form of

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These large which his just health is northeastern edge of the Division are at essections of from about 100 to 150 feet higher than at the continers edge because of the necessary when his a surkedly discussionable rise in elevation which coincides woughly with the north-castern exterior boundary of the particle of the 67,700 screets.

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Repartment of a riculture most of the college and a late of the uplant plain are seen are of the indotes corlege. India, which are the dominant policy of manner, in the division, the limitoke college are secretarily to having the limitoke college are secretarily to having the limit accumulation, limit characteristics of the factor of the form of

fractured but firmly comented lime layers or plate-like sheets. There may be two or three of such layers separated by comparatively loose material. Helow these layers the soil material is often compact and slightly comented but soft as compared with the layers immediately above. The Portneuf soils they describe as deep locasial soils in which a very compact layer of subsoil lime concentration occurs, ranging from a few inches to one foot in thickness. However, here most of these rather inextensive Portneuf soils are the shallow phase in which basalt bedrock capped by a lime comented layer is encountered within a depth of 3 feet. Other inextensive soils are the deep locasial stream modified so-called Cryx soils occurring along the ephemeral stream channels as elongated, narrow, flat areas.

As elsewhere on the Division, soils here vary considerably from place to place. Thus, in subscil characteristics this range of variability is important in avaluating their economic value under irrigation, and as formerly in the detailed land classification soil groups were identified to distinguish these subsoil and substratum characteristics. However, in this more limited area only six (10, 30, 40, 50, 60, and 70) of the former eight sell groups were endountared and of these only four covered any significant acreage. These are groups 10, 30, 40, and 60 which, as formerly in the original survey, have in general the following described characteristics but with specific significant differences as noted.

Soils with no Root Restrictions in the Profile

Group 10.—Pormeable soils which have limy nodular subsoils, and basalt bedrock at a depth of at least 54 inches but no restrictions to root growth within this minimum depth.

In this area the limiting depth is not necessarily to the basalt bedrock as deep borings indicate that the extensively developed lime hardpan layers may also underlie this group of soils before the basalt is encountered. This important deep parasable soil which occupies about one-fifth of the area classified has the following profile characteristics.

The surface soil of mellow silt leam ranges from 8 to 20 inches in depth but averages about 16 inches and is usually noncalcareous. Below this is a highly calcareous subsoil about two feet thick. A loose floury silt loam or very fine sandy loam commonly lies under the highly calcareous some ranging downward to variable depths below five feet. Varying degrees of compaction may occur throughout the profile, which may range from slight compaction to mild communitation. The zone of lime accumulation is nodular in places and in some cases more or less platy. Locally this lime some may restrict downward root development but such layers usually soften and become penatrable when wet.

The mellow, friable silt loam upper horison and the very fine sandy loam deeper zones are very permeable to water and even the higher lime developments do not significantly retard percolating waters.

Soils with Root Restrictions in the Profile

The remainder of the soils have restricting limy layers or somes which vary from those with considerable compaction to those definitely indurated. The surface soils are very similar to those of the former soils, but in the subsoils and substrate such concentrated lime developments may more or less restrict roots. However, it appears that with the exception of the deeper and more highly comented layers, roots have a tendency to work down through the fractures to a considerable extent. These layers soften under irrigation and are quite permeable.

Group 30.—Soils of this group have very compacted or weakly comented modular or platy subsoils which restrict root growth somewhat but the understrate is penetrable.

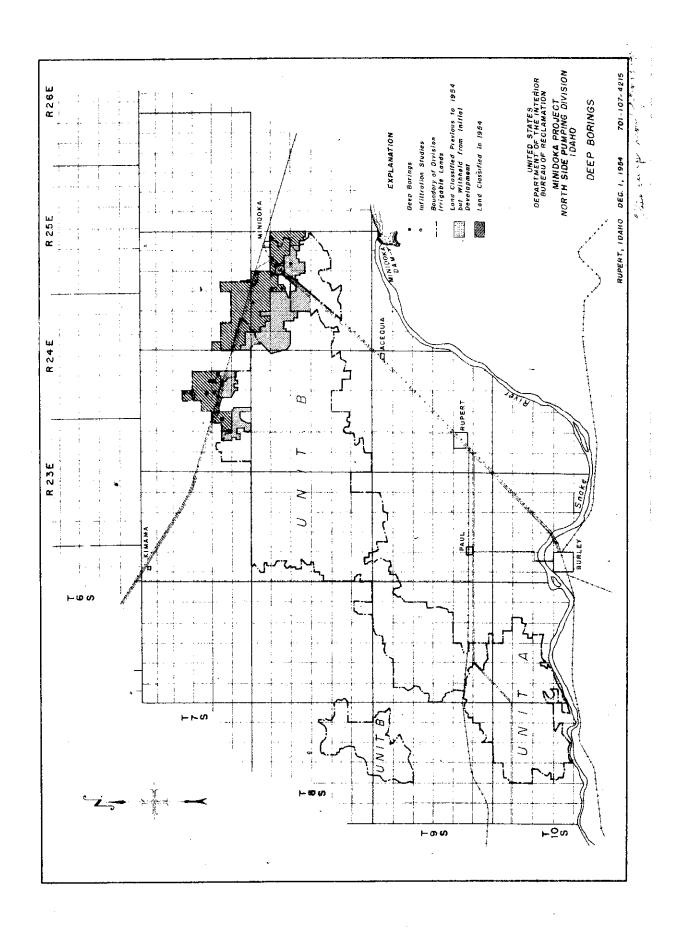
About one-fifth of the area classified in this survey belong to this group of soils. However, only in a very small area are these soils similar to those previously mapped, most of them belonging to a new subgroup described as follows:

Subgroup 330 - Soils of this subgroup have subsoils with a series of compacted limy layers with a very thin cappings of shell-like indurations. These cappings are fractured and though downward root development is restricted, roots penetrate the fractures somewhat. At deeper depths the roots are likely to be stopped by a more strongly developed capping. Where the cappings can be reached by subsoiling the soil can be improved for root penetration. The fractured nature of the cemented cappings of lime layers permits downward water movement and as observed on other projects these soften under irrigation.

Group 40 - Soils of this group have subsoils with a thin lime comented callche-like layer within a depth of 36 inches. This layer restricts root development but with subsoiling significant improvement would result as the soil above and below this layer is penetrable.

This soil which occupies nearly one-fourth of the area classified is very similar to those occurring in the original area surveyed.

Group 60 - In the area covered in the previous survey these soils have a lime cemented indurated (caliche) subsoil development which is definitely impenetrable to roots. For the most part in the present survey, the lime hardpan is fractured and is delineated as the following subgroups.



Subgroup 620.—The soils of this subgroup have a fractured indurated caliche hardpan which is perseable to water and the roots penetrate downward through the fractures. This soil does not lend itself to subspiling very well but with fractures for water and root penetration the caliche development is not as limiting as an impenetrable hardpan.

About one-fifth of the soils of the present survey belong to this subgroup.

The remainder of the soils which belong to Groupe 50 and 70 are very inextensive and unimportant in this latter survey. These two groups of soils have the same characteristics as in the original survey.

Physical and Chemical Properties of Representative Soil Profiles

Soil samples for laboratory analyses were collected from four deep borings made in four widely separated representative locations as shown on map following page 7.7 These soils are described below, and in tables 1 and 2, these analyses are shown. The chart following page 10 shows the moisture tension curve for one of these profiles.

The machanical analyses of these deep profiles, as shown in table 1, indicate the silty character of the soils and substratum, which is indicative of their losssial origin. However, in profiles 1 and 2 from the west portion of the area the clay content is such higher in the lower part as compared with the top part, whereas, in profiles 3 and 4 the clay content is considerably lower in the lower layers. The textural differences in these soils, however, apparently are not as significant as the soil structure and line accumulation indicated in the soil descriptions which are factors that more directly affect plant growth in relation to fertility, root posetration, and permeability to water.

High lime in the subsoil and substratum is indicated by the field profile description and the laboratory analyses with the most notable increase (table 2) generally in the lower subsoil and upper substratum. These zones of high lime concentrations whether desented or not have the highest pH values in the profile. These pH values, common to high lime concentrations in this general region, increase on dilution but with leaching are shown to decrease for the most part with the leaching out of the salt which also appears to be satisfactorily accomplished. Exchangeable sodium which is only seriously concentrated in the lower parts of the substrate of 3 and 4 show a marked reduction and reach a satisfactory level in all samples except those from the lower substrate of profile 3. With prolonged leaching, such as would occur with

PREFILE DESCRIPTIONS OF DEEP BORINGS

Hola No. 1 - Class 1; Soil Group 10; Subgroup 124 Sec. 28, T. 7 S., R. 24 E. At 16/14 Cor. On - 32" - Silt loss 32" - 55" - Hodular compacted very fine sandy loss

55" - 84" - Compact very fine sandy loam
84" -100" - Loam to light clay loam, with dark nodules

100" -120" - Loss

120" -140" - Loem (moist)

140" -165" - Light clay loam to clay loam

165" -216" - Louis

18: -24:6" - Loan - lime capping at 24:6"

24'6"-25'6" - Loam to light clay loam. Broken baselt at 25'6".

Hole No. 2 - Class 1; Soil Group 10; Subgroup 124

Sec. 23, T. 75., R. 24 E. At 5-1/4 Cor.

0"- 12" - Silt loss

12" - 10" - Wodular wilt loam

40" - 60" - Floury silt loam

60" - 108" - Silt loam

108" - 126" - Blocky heavy silt loam

126" - 168" - Loam

166" - 216" - Nodular highly compacted silt loam to light clay loam

18 - 27' - Light clay loam to clay loam (Small pea size basalt chunks last three feet)

Hole No. 3 - Class 3; Soil Group 10; Subgroup 124

660's. of N-1/4 Cor., Sec. 4, T. 8 S., R. 25 E.

O" - 12" - Silt loam

12" - 36" - Modular silt loam

36" - 60" - Very fine sendy less

5' - 8' - Light clay loom

8' - 10-1/2' - Losm - compacted some with caps. Basalt rock at 10.5'. Some lime coating on basalt cravices.

TABLE 2 NECHAFICAL ANALYSES OF SOIL SEPARATES

PERCENT OF EACH PARTICLE SIZE

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Hole No. 4 - Class 2s Soil; Subgroup 334

Sec. 14, T. 8 S., R. 25 N. At 16/11 Cor.

O" - 12" - Silt loam

12" - 16" - Silt losm - modular ecapaction

36" - 66" - Series of thin caliche layers in loose floury silt loss.

5'6" - 11' - Nodular compacted leam. White mottling throughout this zone.

11: - 17:8" - Loam. Some nodules and compaction.

Water Holding Capacities of Typical Soils

The moisture tension curve and accompanying data (following page -10) like those in the original Land appendix of 1952 show that the soils in the supplemental area have similar high soisture holding capacities. This is in excess of 2 inches available water per foot of soil,

Along with the leaching experiment on a simulated disturbed profile core (Hole 3 table 2) moisture retention and available moisture were also

determined with results as shown below.

Horizon	Disturbed Core - Field	15 Atmosphere Moisture	Available	Moisture
Inches	Capacity In./Fb.	Retention In./Ft.	In./Ft.	In./ Horison
0-12 12-36	2.42	1.20 1.21	2.22	2.22 5.82
36-60 60-96 96-126	4.63	1.08 1.50 1.22	3.07 3.13 3.53	6.14 9.39 8.82

Topography

The topography in this part of the Division is generally well suited to irrigation farming. However, in being more completely traversed by drainageways then the area to the south at the lower elevations there is a general absence of large, smooth, gently sloping or gently undulating areas that characterize that area. Instead the land in general is more strongly undulating with occasional higher rising rolling areas between drainageways. The smoother more gently sloping areas occupy the wider

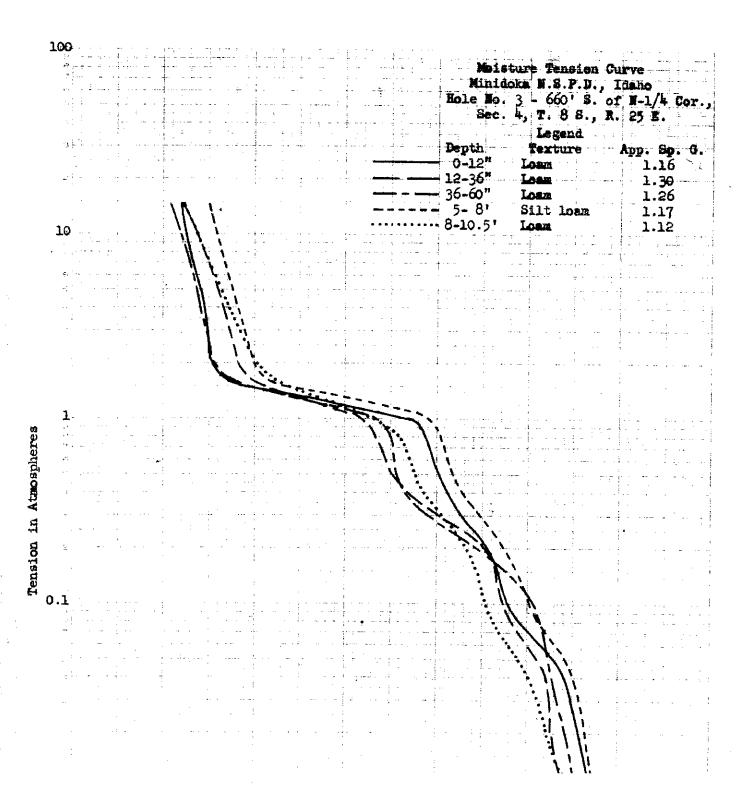


Table 2 - Summary of Laboratory Date on Four Beep Soil Frofile Samples Minidoka North Side Rusping Division, Idaho

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Drainage

Most of the lands in this latter survey have favorable topography for surface drainage and adequate drainage outlets for runoff are provided by the dendritic drainage system. There are few if any extensive flat areas or closed basins, but locally where there are flat wide areas along drainagemays of low gradient, the channels may have to be deepened to provide adequate capacity for free flow where water might accumulate.

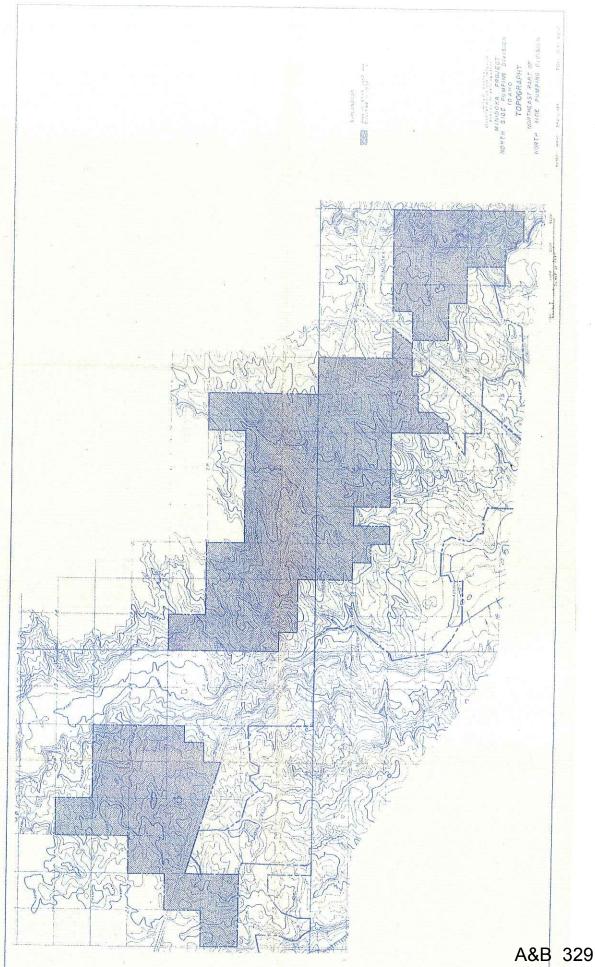
With these favorable topographic conditions and the necessity for rigid economy in use of water, it does not appear likely that the soils will become oversaturated even though in probably half of the area the downward movement of water may not be as free as elsewhere because of lims comented layers in the subsoil and substratum. Hear Eden and Namelton there are extensive areas with similar topography and soils with similar subsoils and substrate where irrigation has been practiced for over 40 years without any evidence of waterlogging or sait accumulation except perhaps very locally in drainageways.

The reason that internal downward movement of water is not seriously restricted is probably largely due to the fractured nature of the very dompact or comented plates, layers and somes usually lying over or bedded with thick layers of loose floury silt and very fine sand. Even where those comented layers directly overlie the basalt bedrock, the extremely fractured creviced nature of the laws flows with large pressure cracks and cooling joints should preclude the development of a perched water table.

Personability Tests

tion rates and the permeabilities on representative soils were determined in a muster of locations (see map following page 7) by the use of cylinders. These were placed on the soil in pairs, and after applying water, recordings were made periodically to determine the rate of infiltration into the soil. The infiltration rate was determined on the dry soil for about 6 hours and then for about 6 hours after the soil had become wet. After he hours holes were excevated to trace the extent of the wetted pattern. The 12 charts following page 127 show the wetted pattern as well as the rate of mater movement into both the dry and the wet soil. The accumulated amount applied to the soil in the dry and the wet condition is also shown.

The cylinders in Sections 15, 22, and 27 of Township 7 South Range



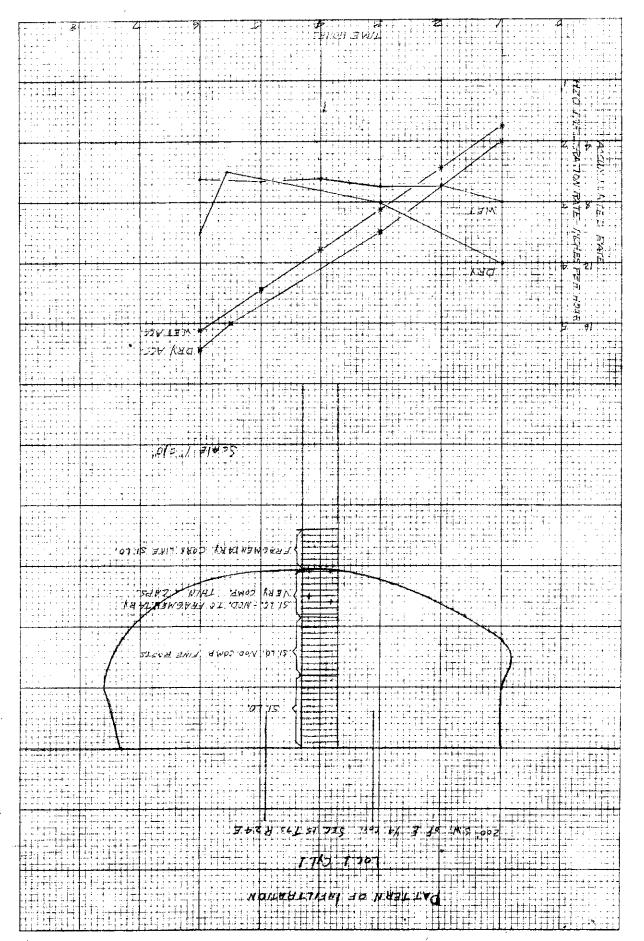
limy subsoil water appears to penetrate downward without being approciably retarded. This is apparently due to the fragmentary and fractured character of these subsoil and substrata developments. However, there are some variations indicated in the extent to which the water penetrated the cemented layer during the 6-hour period. This is due to the considerable difference in development of the line some from place to place. With prolonged application the penetration no doubt would have continued as the laboratory data on the deep profiles indicates that though water movement is slowed down in the lower subsoils and deeper substrata, percolation is adequate for internal drainage if no obstructing layer or solid basalt bedrock is encountered. Since indications are that the baselt is creviced in this area, problems probably will not arise from this cause. Mevertheless, with this as a possibility locally, overirrigation or the continuous running of water in farm ditches should be guarded against even though for the most part the topography is favorable for satisfactory remoff of excess water in areas where high lime davelopments occur.

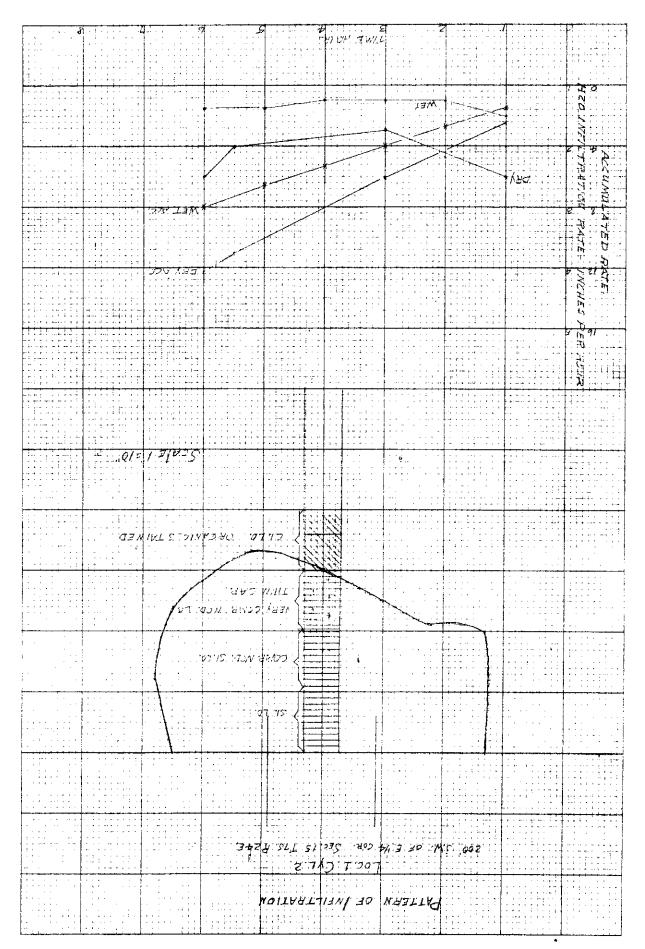
Saline and Alkali Soils

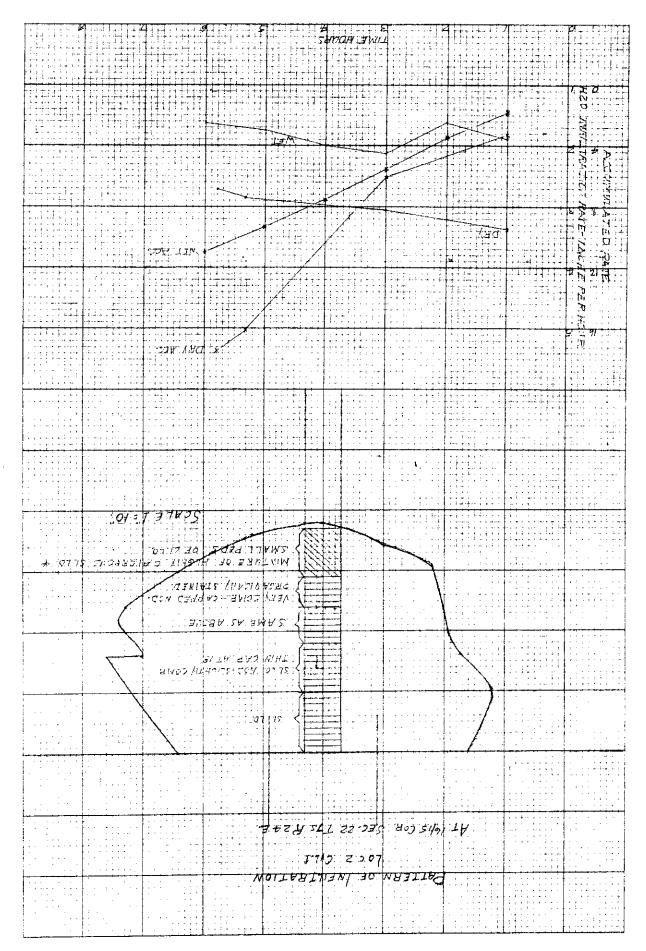
of the area to the south of this recently classified 8,400 acres, there is no surface evidence of saline of alkali soils. However, during the progress of field classification, salt and reaction were determined on all soils sampled. This sampling which was to a depth of about 5 feet revealed that though salt concentrations are extremely variable and not generally common to continuous areas in somewhat ever half the samples salt occurred in slight to moderate concentration in the subsoil. This salt occurred largely in the soils with lime communed layers, plates, or somes in the subsoils and substrate. This concentration of salt in lime communed layers is not uncommon and can be expected where such developments occur.

For the most part no combination of salinity and high pH appeared to be naturally occurring but on most samples the pH increased on dilution, which is characteristic of high lims subsoil developments and not necessarily significant in crop production except where the alkalinity persists or rises in the profile when the land is irrigated. In only a very few cases, however, was the increase greater than can be expected in this peneral area of high lims subsoils and substrate.

Here, as elsewhere on the Division, the deeper substratum even where not comented may be slightly to moderately saline and contain variable amounts of exchangemble sodium. Because of the creviced and fractured house it to expected that both salt







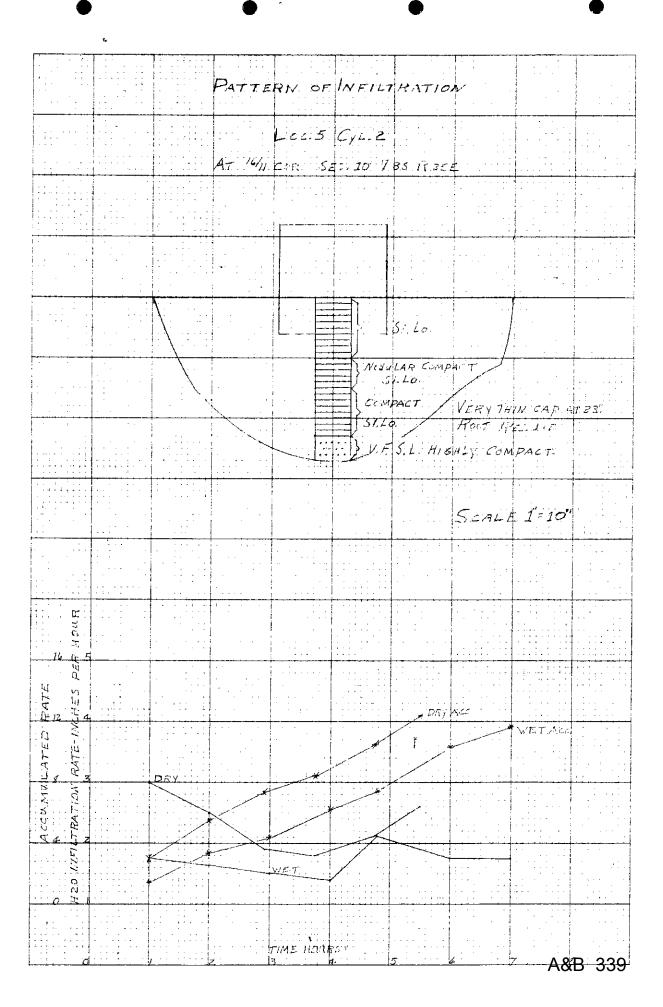
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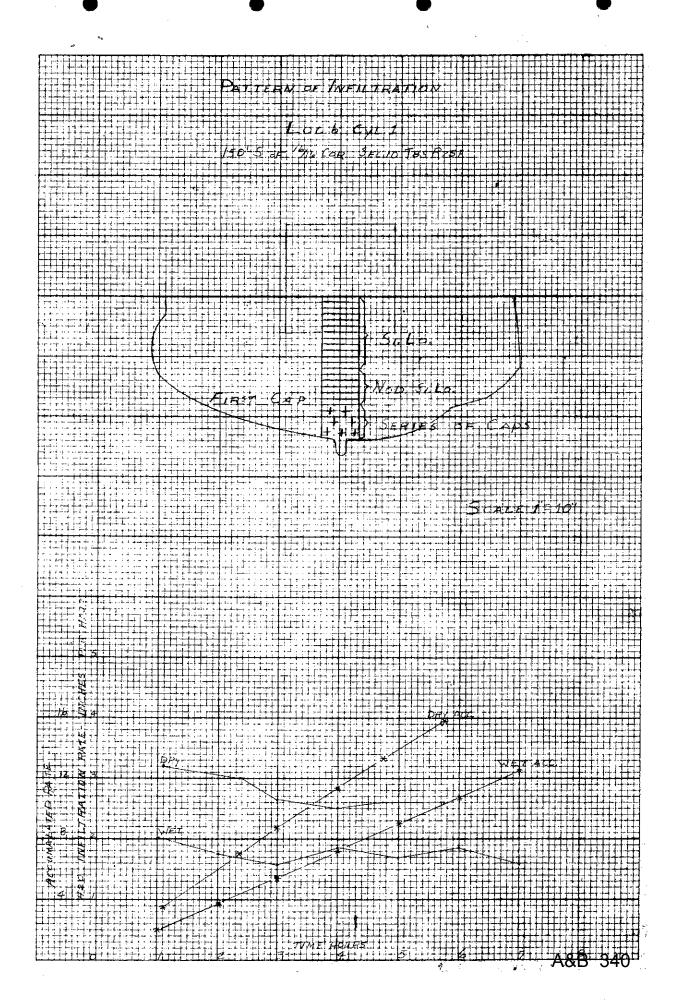
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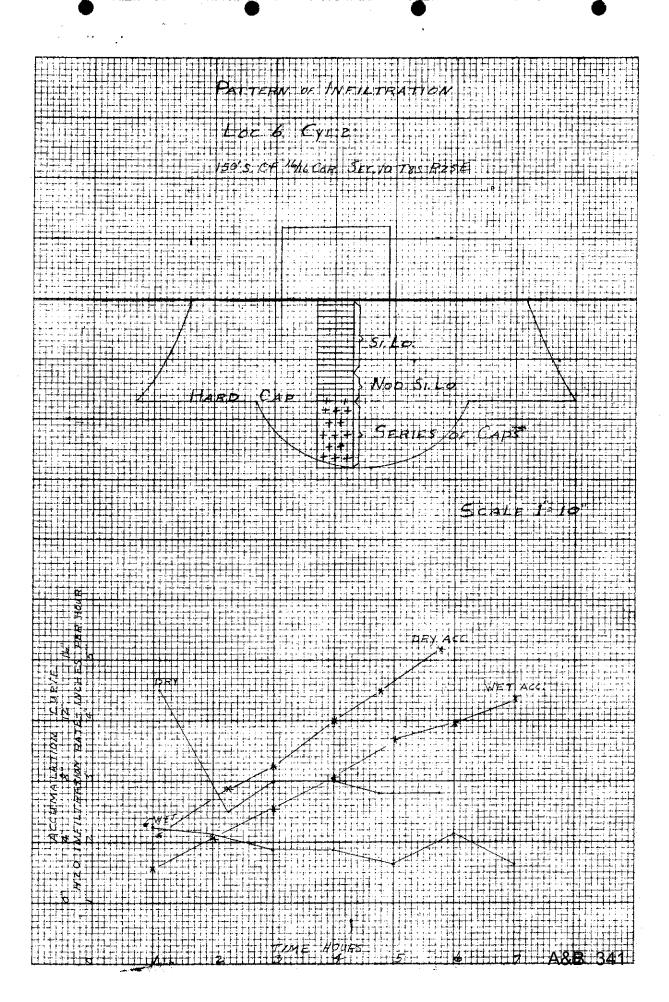
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saturation or waterlogging of such soils could give rise to a salt problem by creating continuously wet conditions which promote surface salt concentrations rather than leaching. With the necessity of rigid aconomy of water and the general favorable topography for surface runoff, it should be possible to holdowersaturation or waterlogging to a minimum.

LAND CLASSIFICATION

The lands in this area were classified by use of the same standards as elsewhere on the Division. The evaluation of the lands for irrigation were by an integrated analysis of both physical and economic factors as applicable to these lands and as confirmed by actual experience on adjacent developed projects with similar lands.

The areas on nearby projects originally selected as correlation areas were the following:

- 1. An area immediately east of Twin Falls, Idaho having comparable high quality Class 1 lands as those on the North Side Pumping Division.
- 2. An area in the vicinity of Buhl, Idaho with lower quality lands due to shallower soils than in the Twin Falls area.
- 3. An area east of Hazelton, Idaho where the lands are of only medium quality because of compact to cemented subsoils and substrata.

Only about one-fifth of the soils of 8,400 acres recently classified have lands with soils and topography similar to the first correlation area. Those of the second area are only represented to a limited extent but the lands of the third are comparable to about three-fourths of those of the area recently surveyed.

Classification Specifications

Minimum specifications were the same as formerly set up for soils, topography, and drainage following the correlation of these physical conditions with similar conditions in adjacent irrigated areas. Basically, these specifications (table 4) follow closely the general overall specifications set up from past experience of the Bureau of Reclamation.

In the field, land classification areas regarded as arable, were separated from those considered nonarable, and, in turn the arable lands were separated into classes. About 88 percent of lands classified in this survey are arable. The various land classes were as follows:

Class 1

Soils of class I lands are deep, permeable and medium-textured, without restrictions to root growth. Surface soils are generally more than 14 inches deep over a slightly compacted calcareous subsoil. All soils are at least 54 inches deep over creviced basalt, but most are much greater in depth. They occupy gently sloping smooth uplands and broader depressional areas along drainageways. The lands may range up to 3 percent in general gradient but the slopes commonly are one-half to two percent. The soils are free from harmful accumulations of salts and have no drainage problems.

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tenders of flow some tenders to avoid some logical this symbolism on with the A = 1, T = 2, etc., which was used areasons in the center of flow some tenders of the project leads. The source will the A = 1, T = 2, etc., which was used areasons in the center of the project leads. The source is a special problem more stided when a manufacture of all third y represent the highest of source depending open the manufacture. Except if the posterable line section will be detributed to the depth to writing one if addition is found in the profile and it is construing beasing, then the fruction will relate to the depth to that can be depth to the found in the profile and it is construing beasing, then the fruction will be detributed then the fruction will relate to the depth to the flow of the profile and it is construing beasing the state of the state of the depth of soil nearly stores and distribution from many distribution the state of the first source as largely splitted. This is due to the wells being located on the flow change its elementation can elementation and elementation who exhibited from the intering although to still reason as largely splitted.

MINIMUM LAND CLASSIFICATION SPECIFICATIONS

North Side Punning Division Winidoka Project, Idaho

Lord	Class 1	Class 2 "Arable"	Class 3	Class hP
Characteristics	"Arable"			
		SOITS		
exture	Sendy Loam to Frieble Clay Loam		Loany Sand to Permeable Clay	Loamy Sand to Particable Clay
epth: To smal, gravel r cobble.	36" plus—good free working soil of fine andy loss or heavier, or h2" of sandy loss.	working soil of fine	18" plus -good free worling soll of fine sendy loss or heavier or 2h" - 30" of lighter taxtured solls.	
To creviced basalt r indurated modular r silty platy, cented hardpan. (Insensity permeable to roots, ut allightly permeable o water.)	5h ^a phis	#Su bire	30 th plus	2lia plins
To impervious in- mented callche ardpan.	60 ^M plus	liga byna	369 plus	Zh ⁿ plus
To highly calcara- us very compact somi permosable hardpan.	60° plus	96" plus	gh ^u plus	15 _n byna
To penetrable lime one.	lh" plus with 5h" ponetrable			
illulinity 2/	pH not to exceed 8.6	pH not to exceed 9.0	pH not to exceed 2,0 unless soil is cal- careous; total salts are low.	pH not to exceed 9,0
Selinity L	Total salts not to exceed 0.2%	Total salts not to exceed 0.3%	Total salts not to exceed 0.5%. May be higher in open perso- able soils and under good drainage condi- tion.	If salt content exceeds 0.5%, must be under conditions where it can be con- trolled.
		TOPOGRAPHY		
Slopes	Smooth slopes up to 3% in general gradi- ent in reasonably large bodies sloping in the same general plane.	Smooth slopes up to 7% in general gradi- ent in reasonably large bodies sloping in the same plane; or rougher slopes which are less than 3% in general gradient.	Smooth slopes up to 12% in general gradi- ent in reasonably large sized bodies sloping in the same plane; or rougher slopes which are less than 7% in general gradient.	Smooth slopes up to 18% in general gradient in reason- ably large sized bodies; or rougher slopes which are less than 12% in general gradient.
Surface	Even enough to require only small amount of leveling and no heavy grading.	Moderate grading required, but in accounts found feasible at reasonable cost in comparable areas.	Heavy and expensive leveling required in spots, but in amounts found feasible in com- parable irrigated areas	Surface condition such that crop adaptability is very limited and management problems would be very compl
Cover (loose rocks and vegotation)	Rone	manificient to modify productivity or cultural prac- tices; or clearing costs small.	Sufficient to reduce productivity and in- terfor with cultural practices. Clearing required but at mod- erate costs.	Present in suf- ficient amounts to cause specific limited crop adaptability.
		DRAINAGE		
Soil and topography	Soil and topographic conditions such that no specific farm drainage requirement is anticipated.	Soil and topographic conditions such that some farm drainage may be required and if required, reclamation by artificial, peans is feasible at reasonable cost.	Soil and topographic conditions such that significant farm drainage will probably be required, reclassion by artificial means fay be expensive but feasible.	Soil and topographic conditions such that significant farm drainage will probably be required, and if required by artificial means, surface durings is at least feasible.

CLASS 6-MONARABLE

Includes lands which do not meet the minimum requirements of the next higher class, and smell areas of arable land lying within larger bodies of nonarable land.

 $[\]perp$ Average for Root Zons and must be under soil, water and drainage conditions such what concentration will not become greater.

^{2/} Where click spot conditions show deterioration of the subsoils, the land class must reflect the propertionate area occupied, as follows: class 1 up to 10%, class 2 10% to 20%, class 3 20% to 30%; if greater than 30% lands may be placed in a special Yss class if other conditions warrant, otherwise in class 6. A&B 345

A&B 346

Table 5--ACREAGE OF LAND CLASSES - SUPPLEMENTAL SURVEY 1954

MORTH SIDE PURPING DIVISION Minidoka Project, Idaho

A	٥٥	atio	1		-				L	lrable				1 2		3	To	1-Arab	Le	
ec.	:	Twp.	1	Rge.		ī	;	2	00	3	î	5里	8	Total :		4	2	6	:	Tota
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15	2	7	•	24	1	49.2	2	22.1	ŭ ĝ	68.3	9		:	139.6 :		2.3	è	18.1	4	20.4
22	2	7	:	24	:		1	29.6	9	294.9	2		t	422.0	3	20.4	8	37.6	\$	58.0
23		7	2	24	: 2	202.4		72.0	\$	273.0	1		2	547.4	8	59.9	0	33.7	2	93.6
26		7		24	A. 10.00	63.4	*	25.5		193.7	2		9	282.6	2	17.4	2	9.3		26.7
27		7	2	24	1	29.8	1	17.2	2	144.1	ī			191.1	1	9.3	8	12.0	t	21.3
28	*	7	2	24	9	62.1	2	139.9	:	237.9	1		2	439.9	2	0.3	2	24.0	8	24.3
27		7		25	•	8.4	ż	23.9	1	104.5	970		2	136.8		15.0	9	8.2	2	23.2
29		7		25	•	0.0	2	4.0	2	140.3	3		9	144.3	9	5.0	:	10.7	9	15.7
20	•	7		25	:	0.0		88.1	Ŷ	321.8	1		Ė			24.6	2	16.8	8	41.4
30 31		7	9	25	t	0.0	9	81.5	2	306.0	t		8	387.5	3	11.9	2	29.1	đ	41.0
3A		7		25	•	0.0	9	73.4	2	475.8	4		3		9	18.0	8	32.9	2	50.9
32 33 34		7		25		69.7	2	27.1	Y	465.3	1			562.1	*	0.1	8	46.1	2	46.2
22	è	7		25	•	40.0		16.8	2	238.1	2		1	294.9	2	14.5	8	8.3	8	22.8
2*		8	*	25	*	102.5	9	50.8	2	423.9	2		\$	577.2	1	24.4	2	15.4	1	39.8
3		8	*	ditte serv	Ŷ		*	106.6	2	479.1	2		2	- A	8	15.6	2	40.5	3	56.1
5	è	8		25	i	0.0		208.7	2	218.2	9		2	426.9	8	0.1	4	12.9	0	13.0
10	b	8	9	dit es	2		•	79.6	2	164.6	d		2		2	10.7	2	7.9	1	18.6
	ě	8	9	200.00	9	- 4	ę	26.2		314.5	2		9	340.7	2	0.0	2	7.3	8	7.3
11	3	8.	9	48h 044	9			160.2	2	282.0	ė		ž	442.2	9	30.4	2	167.8	2	198.2
13		8	ě	25		0.0	9	178.9	2	25.6	2		2	204.5	9	15.0		195.6	2	210.6
13	1	U	ě	<i>- 1</i>	9	9.9		= 10.7					9		2		9			- C 20 - 70
	- 1		, i				÷						2		0	-	****		8	The same of the same of
(A)	YTA	TQ				730.5	9	1432.1	9	5171.6	9.				16	294.9	9	734.2	8	1029.1
21	# <u>8.17</u> 1				9	130.7	0	and a "State a sup-	9	2-m1-m.	2		1	194	0		8		2	3 X

Table 5A--ACREAGE OF LAND CLASSES FROM INITIAL SURVEY

NORTH SIDE FURPING DIVISION Minidoka Project, Idaho

	Location				Arable			Mon-Aral	ble
Sec.	Twp.	Rge.	: 1	2	3	Total	: <u>4P</u>	6	Total
33	7	24	:	50.7	243.7	294.4	0.7	45.8	46.5
3 5	7	24	4.5	63.1	227.5	295.1	9.5	7.7	17.2
6	8	2 5		88.2	38.0	126.2	•	12.0	12.0
15	8	25		32.3	64.2	96.5	:	6.7	6.7
7	8	25	30.7	52.8	2 59.3	342.8	16.5	8.7	25.2
Totals			· 35.2	287.1	832.7	1155.0	: 26.7	80.9	107.6

. Nikoleo (14012) nevicie Guideka P**roject, Idaho**

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o. Iwa.	· ·	*		**************************************		2	3	*	الأر		Total	**************************************	14	 .	5	Total
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Ke 1 7	2	6.	,	97.5:	29,	6:2	294.9	*			122.0		20 L		7.6	
7	ś	6.3	:	202.4:	72.	oi:	273.0	ž		2	547.4	3				. 93.6
	į	<u></u>	Ť	13.44	25		193.7	2		4	232.6	•				26.7
7 1 7	ž	n.	P N	29.3:	17.		44.i			ī	191.1	*				: 21.3
	2	\mathcal{T}_{i}	•	62.1.			237.9	ž		•	1 0000 00		0.3	. 9	1. A	24.3
	3	V2 .	?	8.4.			~ 1 ~	Ŧ		7	the second of	2	·	¥ 6	4 .0 0. 角 句.	: 23.2
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	ž		ž	0.0:			8, 121			•	409.9		24.6		6.8:	
2: 7	2	11 g 40	4.	9.08			06.0	1		í	367.5	*	·			41.0
7			3.	O.J.			75.0	1			549.2	•	15.0			50.9
J. 1 7	1	2.7	ź,	69.7:			65.3			*	562.1	ŧ	a- w			46.2
No. 1		25	:	40.01			38.1			1	294.9	ř	en i us			
3: 9	2	ارون فران	ŧ	1:2.5.			23.9	2		î	577.2		24.4			22.8
	9	25	S	0.0.			79.1			*	535.7	3	15.6		5.4:	
: Ö	é	25	7	0.0.			15.2	*		•	426.9	i	0.1			56.1
	ų.	25	ŧ	وْ مُنْ وَكُنْ			54.6			*	249.7	ķ	10.7		2.9:	
n., 5	Ϋ́	25	2	០. ៎.			14.5				340.7	7			(• > 2	18.6
A : 3	1	25	2				52.0;				142.2	i	0.0 30.4	። ግር፣	7.3:	7.3
3 : 0	÷	25	t				25.6			1	204.5	3		2.10	(.0:	198.2
;	2		ş	*		<i>y</i> 4	4 ()	•		ş	EV4#2	:	15.0	117)	> _ () ;	210.6
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7/15	*			30.5 .1		*		1	· · · · · · · · · · · · · · · · · · ·	1		1		<u> </u>		

Acresge of Land Classes
(Not included in 1954 Supplement)

Location			:	Ar	a ble		: Non-Arable		
Sec.	Twp.	Rge.	: 1	5	3	Total	: 4P	6	Total
33	7	24	• •	50.7	243.7	294.4	0.7	45.8	46.5
35	7	24	4.5	63.1	227.5	295.1	9.5	7.7	17.2
G	8	25	:	88.2	38.0	126.2	:	12.0	12.0
15	8	2 5	:	32.3	64.2	96.5	:	6.7	6.7
7	8	25	30.7	5 2. 8	25 9•3	342. 8	16.5	8.7	25.2
Tota]	s		35.2	287.1	832.7	1155.0	26.7	80.9	107.6

Class I lands which occupy about 10 percent of the irrigable area are of high quality, are well suited to all crops grown in the area and are capable of sustained yields under common agricultural practices. They can be prepared for irrigation at relatively low cost.

Class 2

The class 2 lands are communication to those of class 1 in having limiting factors of soil, topography, and drainage singly or in combination, depending on the intensity of the deficiency. The surface soils are shallower than 1h inches over the compact lime horison or they may contain enough "malick spots" to reduce their productiveness. Lime communication in the subsoil may limit their effective root depth and productiveness or slight to moderate salinity may decrease yields and make leaching operations necessary.

Some of the class 2 lands have slopes from 3 to 7 percent; others are sufficiently uneven to require leveling for afficient irrigation. These land conditions tend to increase development costs.

In the virgin state class 2 lands are well drained, but under irrigation it may be necessary to provide drains and drainage outlets for a few local flat areas or basins and for more extensive flat lands along the drainage courses. It is not anticipated that lime comented layers or somes will affect internal drainage materially.

The class ? lands which occupy about 20 percent of the irrigable land in the area classified will generally be a little more coetly to develop, and in some cases more coetly to irrigate. Where the surface soils are shallower a more intensive soil management and fertility program will probably have to be carried on to bring the fertility level up to that of the class I lands. Also on the more sloping lands crop selection may be slightly more limited. They are, however, relatively high quality lands as has been demonstrated on similar Division lands and on those on adjacent projects.

Class 3

In the class 3 lands the deficiencies in soil, topography and drainage are more exacting than in class 2. These deficiency factors singly or in combination strongly influence the cost of land preparation for irrigation, the crop adaptability and cost of maintaining fertility. On nearby irrigation projects similar lands have been extensively developed for forage and cereal crops though they are not necessarily limited to those crops except where the soils are shallow or the lands more strongly sloping.

The surface soils are mostly, but not always, shallow over compacted or weakly commented subsoils, which in turn may overlie lime bardpan or creviced bedrock at relatively shallow depths. In places the soils are deeper but salt concentrations in the highly calcareous commented subscil

and substrate developments lower their value or may possibly increase the time or cost of reclamation by leaching.

A considerable part of the class 3 land has slepes of 8 or 9 percent or lesser slepes with uneven surface. These features reduce the desirebility of the lands for row crops and reduce yields because of cultural difficulties.

About 70 percent of the irrigable lands in the area recently classified are class 3.

Class LP

Class by lands are low quality lands which ordinarily, on most projects, have only limited use for pasture. On this Division they were excluded from the irrigable acreage and water assessment because of the high cost of water. Only about 3 percent of the lands classified are class by.

These lands consist of a scattering of small areas with deficiencies in soil, topography, and eccasionally drainage. Slopes range in gradient up to 18 percent when slopes are smooth or up to 12 percent when the slopes are rough and irregular. The soil depth may be shallow over crevised basalt or caliche. The shallower areas often have a scattering of loose rock and, in some ereas, "alick spots" are numerous.

Class 6

The class 6 nonarable lands are those which do not meet the qualifications for any of the above classes. They consist principally of uneven shallow rocky soil areas, many of which are almost completely devoid of soil cover or covered with numerous rock outeroppings. They include also, small gully areas and small local enclosed basins without adequate drainage outlets. A few areas are definitely too high to be irrigated economically. Class 6 lands occupy about 9 percent of the area classified in this survey.

Table 6.—Land classification summary - supplemental survey 1954

North Side Pumping Division Kinidoka Project, Idaho

TANK CLASS	Carlo de la companyación	Lo Land ores	1	Trigable	Land	7;	Productive Agree	Tarki 1/
Class 1 Class 2 Class 3	1,43	0.5 2.1 1.6	¥ #	701.3 1,371.6 1,964.8		1 0 0	65 1.27 1.66	
Total	1 7,33	l2	1	7,010.9	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	3	6,61	J.4

- 1/ Arable less 4 percent for additional rights-of-way.
- 2/ Irrigable less 6 percent for farmsteads, farm roads, and farm ditches.

Table 6A -- LAND CLASSIFICATION SUMMARY OF LANDS FROM INITIAL SURVEY

Menta Sibe Purpled Division Minidoka Project, Idaho

Land Class	:	Arable Land Aeres	\$	Irrigable land 1/ Acres	1	Productive Land 2/
[45] - 240	2	12	8		8	and and with the second constitution of the second constitution of the second constitution of the second const
Class 1	8	35.2	1	33.9	1	31.8
	2	100 mars 100	8		6	
Class 2	2	287.1		275.7	2	259.2
¥	\$		2			
Class 3	2	632.7	\$	799.5	2	751.6
Totals	1	1,155.0	1	1,109.1	8	1,042.6
			\$	11-00 1100H FT	:	

- 1/ Arable Land less & percent for additional rights-of-way.
- 2/ Irrigable Land less 6 percent for farmsteads, farm roads, and farm ditches.

Irrigability Classification and Bevelopment of the Group 7 Wells Area

The lands classified as irrigable in this supplemental survey and the previously classified lands included in the 8,150 irrigable acres of this group, like those elsewhere in Unit B, will obtain irrigation water by pumping from wells. Likewise, as determined by location, elevation and capacities of the individual wells, the potentially irrigable lands will be laid out into farm units of acceptable size (see memorandum - table 8.)

The irrigable area map of the supplemental survey of 1954, following page 14, shows the arable lands and the tentative exterior boundary of the irrigable lands upon completion of the survey and in table 6, the arable, irrigable, and productive acreages are shown. Table 5-A gives the location and land class breakdown of the lands previously classified, and in table 6-A, the arable, irrigable, and productive acreages of that area are shown. The irrigable acreages will be subject to some minor changes upon the completion of the farm unit layout.

- 1/ Arable less h percent for additional rights-of-way.
- 2/ Irrigable loss 6 percent for fermatends, farm roads, and farm ditches.

Irrigability Classification and Development

The lands classified in this supplemental survey, like those elsewhere in Unit B, will obtain irrigation water by pumping from wells. Likewise, as determined by location, elevation and capacities of the individual wells, the potentially irrigable lands will be laid out into farm units of acceptable size (see memorandum - table 8).

The irrigable area map following page All shows the arable lands and the tentative exterior boundary of the irrigable lands upon completion of the survey and in table 6 the arable, irrigable and productive acreages are shown. The irrigable acreages will be subject to some minor changes upon the completion of the farm unit layout.

Talke 6 A-Land Classification Surmary & Joseph Service Strain St.

Land Class		: Irr:	igable Land 1/ Acres	: Productive Land 2/ : Acres
Class 1	35.2	• /	33. 9	31.8
Class 2	287.1		275.7	259.2
Class 3	832.7		7 99 -5	751.6
Totals	1,155.0	/:	1,109.1	1,042.6

^{1/} Arable Land less 4 percent for additional rights-of-way.

^{2/} Irrigable Land less 6 percent for farmsteads, farm roads, and farm ditches.

REGION SCALE 1:4800 PROJECT Minidoke Project, Idaho DIVISION North Side Pumping Division UNIT Croup 7 Wells Area OTHER SCALE OTHER SCALE SCALE OTHER SCALE OTHER SCALE	(AUG. 1954) BUREAU OF RECLAMATION	N	Table 7	LAND CLAS	SSIFICATION	SUMMARY DATA		á	DATE 1	1/15/54
Minitades Project, Idaho Division North Side Purping Division Oroup 7 Wells Area Other O		-			2.	BASE MAPS			<u> </u>	
DIVISION DIVISION OFFICE DIVISION OFF	REGION-					AERIAL PHO	то 🗶	SCALE _	1:4800)
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CLASS 2	1,719.2	1	<u>,650.5</u>	1,650.5	OPEN PIT	OR DEE	P PROFILES		6
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TABLE 8
UNITED STATES
DEFARTMENT OF THE INTERFOR
Bureau of Reclamation
Regional Office, Region 1
Box 937, Boise, Idaho

April 13, 1954

Mesorandum

To: Regional Director, Sureau of Reclamation, Boise, Idaho

From: Yarl J. Magloby, Farmers Home Administration, C. O. Youngstrom, University of Idaho Extension Service, and J. Marl Lee, Chief, Economic Resources Branch, Region 1, Bureau of Reclamation.

Subject: Sixe-of-Farm Units, Northelde Pumping Division, Minidoka Project

The Size-of-Farm Committee for the North Side Pumping Division of the Minidoka Project met at Rupert, Idaho, on April 7, to reconsider, in light of operating experience, its original recommendation of April 10, 1950. Individuals present included:

University of Idaho	Farmers Home Adminis- tretion	Sureau of Recla- metion			
Virgil Kennedy Robert W. Wilcox Valliem Fola Vance Smith Vilmer C. Priset L. M. Villiams	Marl J. Magleby C. Bendixsen Willard Stevenson Anders J. Passey	O. L. Kime dobert Pittard L. R. Swarner E. N. Poulson J. Earl Lee			

The Committee reviewed the operating experience to date, and made a short inspection trip to certain areas in and adjacent to the project, after which it set to determine whether or not it wished to modify its previous recommendation with respect to (1) size of units in terms of acreage equivalents and (2) conversion ratios for land classes 2 and 3.

As a result of its re-evaluation, the Committee recommended that as a minimum, farm units to be laid out in the future should not be less than 90 acres in size in terms of class 1 acreage equivalents, and that in determining acreage equivalents 1-1/4 acres of class 2 would continue to equal 1 acre of class 1, but that 1-1/2 acres of class 3, except where topography is the limiting factor, would equal 1 acre of

class 1. It was suggested that where topography is the limiting factor that the individuals laying out the farm units and reviewing them should use their judgment in determining suitable adjustments.

This recommendation results in some significant changes from the previous criteria followed. These changes are, (1) it increases the minimum size from 76 to 90 acres class I equivalent, (2) It changes the conversion ratio of class 3 to class I from 2 acres to 1-1/2 acres, (3) as result of these two changes noted above, it narrows the range of sizes between land classes, and (4) it eliminates the requirement that class 3 land be combined with better classes of land in farm units and makes it possible to lay out farms units entirely with class 3 land.

These recommendations appeared to be genuinally concurred in by everyone present. So far as we are able to determine, they do not represent a compromise in any respect. For that reason we are particularly pleased with the results of the meeting and consider the recommendations an improvement over the previous pregedures.

The method of implementing the recommendation was discussed. It was pointed out that it would, of course, be impossible to change the size of the 157 unite for which public notices have already been issued: and further that it would cause considerable delay if we made extensive changes in the other 150 farm units already laid out. In recognition of this latter equition, it was suggested that a representative of the Farmers Home Administration make an immediate review of these 150 units and that if there appeared to be any units that would not meet the FHA requirements for fare loans that an attempt would be made to adjust the size of such units within the framework of the general recommendation noted above. It was recognised, however, because adjoining units are of the desirable size and connot be either increased or decreased in acreage, or because topographic features impose certain restrictions, that it may be impossible at this time to adjust the size of individual units within the group. It was also recognized that the preliminary review to be made by the Farmers Home-Administration will not necessarily commit the Farmers Home Administration to subsequent approval of such units.

For the balance of approximately 500 units that are not yet laid out, it was agreed that the recommendation would be followed. The suggestion was made that it would be desirable to have a local representative of the Farmers Home Administration participate with Regional representatives in the review of the farm unit layout. It was also suggested if problems were encountered in the layout of the

balance of 100 units, the Bureau would review them with local representatives of the Farmers Home Administration and the University of Idaho and base their action on the combined recommendation of the group.

/s/ Karl J. Magleby Karl J. Magleby

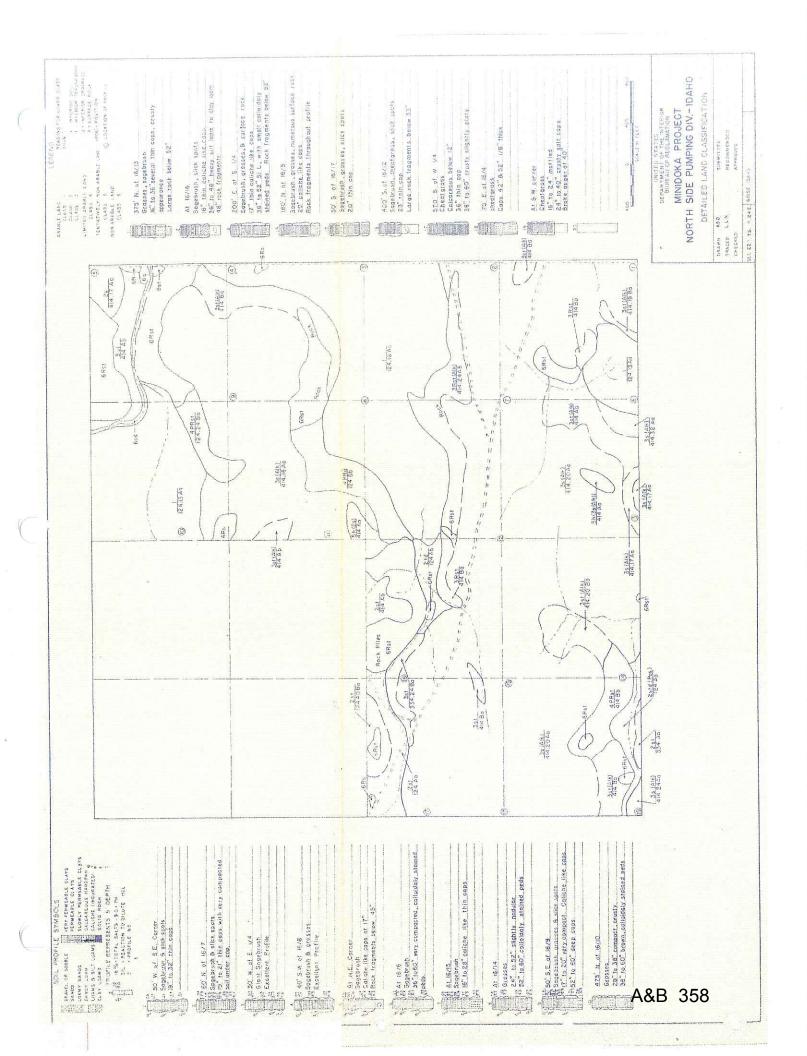
/s/ C. C. Toungettron

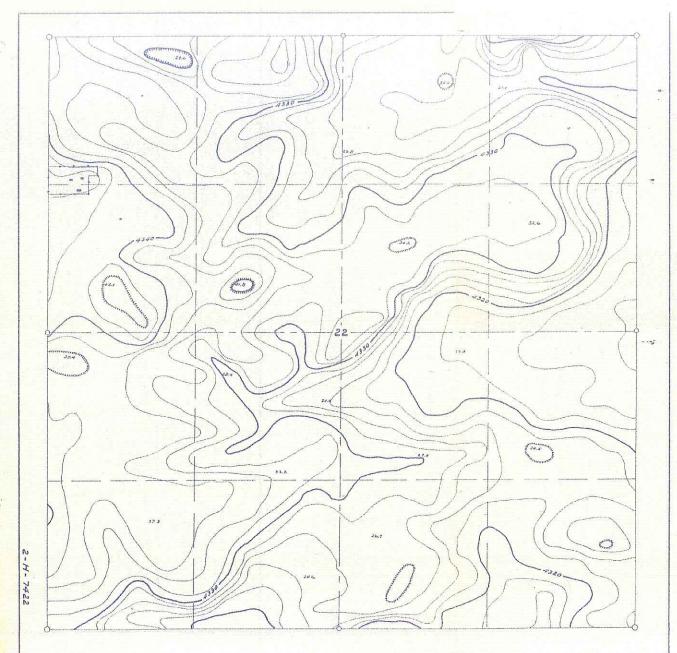
/s/ J. Karl Lee

Attachments

Approved: April 26, 1954

/s/ H. T. NELSON
Regional Director





Sec. 22 T.75. R.24 E. B.M.

APPENDED MATERIAL

This part of the Supplement to the Project Lands Appendix of 1952 deals with that portion of the North Side Pumping Division of the Minidoka Project designated as the area to be served by the Group 8 Wells. This area is outlined on the map entitled Irrigation Development by Years, and on the land classification maps that follow.

The Group 8 Wells area consists of 3,100 irrigable acres, which, when added to the 69,500 irrigable acres initially certified in 1952, and the 8,150 acres covered for certification in the 1954 Supplement, raises the total acreage of the division proposed for development to 80,750 irrigable acres.

The derivation of the 3,100 irrigable seres for development in the area to be served by the Group 8 Wells is shown on the Land Classification Summary Bata Shoet. The soils, land conditions and classification of these lands are described in the original 1952 Project Lands Appendix.

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The derivation of the 3,100 irrigable acres for development in the area to be served by the Group 8 Wells is shown on the Land Classification Summary Data Sheet. The soils, land conditions and classification of these lands are described in the original 1952 Project Lands Appendix.

7-1594 (AUG. 1951) BUREAU OF RECLAMATION	1 2200	Table 9 LAND CLASSIFICATIONSUMMARY DATA					6/6/56 DATE		
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